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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/080,564	02/25/2002	Tetsu Takahashi	1614.1218	8623
21171 7590 102002998 STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			EXAMINER	
			HASAN, SYED Y	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/080,564 TAKAHASHI, TETSU Office Action Summary Examiner Art Unit SYED Y. HASAN 2621 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 June 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 - 23 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) 1 - 3, 8 - 14 and 19 - 22 is/are allowed. 6) Claim(s) 4, 15, and 23 is/are rejected. 7) Claim(s) 5 - 7 and 16 - 18 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 2/25/2002.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Page 2

Application/Control Number: 10/080,564

Art Unit: 2621

DETAILED ACTION

Response to Arguments

 Applicant's arguments with respect to claims 1 - 23 filed on 06/04/2008 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 4 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al (US 5504759) in view of Kamori (US 2003/0014475).

Regarding claim 4 and 15, Inoue et al discloses a coding/decoding part performing coding and decoding a given signal (fig 5 and 7) in one of a plurality of coding/decoding modes of different bit rates (fig 10, col 15, line 65 to col 16, line 12)

a recording medium coupled with said coding/decoding part (fig 5, 6, col 7, lines 32-50)

However Inoue et al does not disclose a control part automatically setting a bit rate to be applied by said coding/decoding part according to at least a remaining storage capacity A(bytes) of said recording medium.

Application/Control Number: 10/080,564

Art Unit: 2621

On the other hand, Kamori teaches a control part automatically setting a bit rate to be applied by said coding/decoding part according to at least a remaining storage capacity A(bytes) of said recording medium (para 0110 and 0113)

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate a control part automatically setting a bit rate to be applied by said coding/decoding part according to at least a remaining storage capacity A(bytes) of said recording medium as taught by Kamori in the system of Inoue et al in order to facilitate the automatic processing of data in a storage medium.

 Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al (US 5504759) in view of Kamori (US 2003/0014475) in view of Koizumi (US 5225909) and still further in view of Roth et al (US 5212678)

Regarding claim 23, Inoue et al and Kamori disclose an image recording apparatus, performing coding and decoding of an input signal optionally recording the signal, comprising:

a control part automatically setting a bit rate corresponding to one of a plurality of coding/decoding modes according to at least an available storage capacity A (bytes) (see claim 4 above)

The combination of Inoue et al and Kamori does not disclose that the image recording apparatus functions in at least two modes, a first mode in which the given signal is recorded/reproduced on the recording medium, and a second mode in which the given signal is not recorded/reproduced on the recording medium but is output

On the other hand Koizumi teaches that the image recording apparatus functions in at least two modes, a first mode in which the given signal is Application/Control Number: 10/080,564

Art Unit: 2621

recorded/reproduced on the recording medium, and a second mode in which the given signal is not recorded/reproduced on the recording medium but is output (fig 6, col 1, lines 17 – 26)

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate that the image recording apparatus functions in at least two modes, a first mode in which the given signal is recorded/reproduced on the recording medium, and a second mode in which the given signal is not recorded/reproduced on the recording medium but is output as taught by Koizuma in the system of Inoue et al and Kamori in order to detect the difference between both outputs.

The combination of Inoue et al, Kamori and Koizumi et al does not disclose that a bit rate of the at least one coding/decoding mode in which the signal is not recorded being equal to or smaller than a rate determined according to the available storage capacity.

On the other hand Roth et al teaches a bit rate of the at least one coding/decoding mode in which the signal is not recorded being equal to or smaller than a rate determined according to the available storage capacity (col 9, lines 33 – 42)

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate a bit rate of the at least one coding/decoding mode in which the signal is not recorded being equal to or smaller than a rate determined according to the available storage capacity as taught by Roth et al in the system of Inoue et al, Kamori and Koizuma in order to be capable of recording and/or reading the information having a bit rate lower than the bit rate corresponding to the scanning period.

Application/Control Number: 10/080,564 Page 5

Art Unit: 2621

Allowable Subject Matter

5. Claims 1 – 3, 8 – 14 and 19 - 22 are allowed.

 The following is a statement of reasons for the indication of allowable subject matter:

The present invention of claims 1 – 3, 8 – 14 and 19 - 22 is directed to an image recording apparatus and semiconductor device comprising a coding/decoding part performing coding and decoding a given signal in one of a plurality of coding/decoding modes of different rates.

Independent claim 1 identifies the unique distinct feature "wherein the predetermined bit rate is equal to or larger than a bit rate determined by the control part based on a remaining capacity of the recording medium in the first mode".

The closet prior art, Inoue et al (US 5504759) discloses a coding/decoding part performing coding and decoding a given signal (fig 5 and 7) in one of a plurality of coding/decoding modes of different bit rates (fig 10, col 15, line 65 to col 16, line 12) but does not disclose wherein the predetermined bit rate is equal to or larger than a bit rate determined by the control part based on a remaining capacity of the recording medium in the first mode

Hence claim 1 is allowed.

Since claims 2 and 3 are dependent on claim 1, therefore they are also allowed.

Therefore claims 1-3 are allowed over prior art.

Independent claims 8, 12 and 19 identify the unique distinct feature "wherein a bit rate of the second mode is equal to or larger than a bit rate determined by the control part based on a remaining capacity of the recording medium in the first mode".

Hence claims 8, 12 and 19 are allowed.

Since claims 9 - 11 are dependent on claim 8, claims 13 and 14 are dependent on claim 12 and claims 20 - 22 are dependent on claim 19, therefore they are also allowed.

Therefore claims 8 – 11, 12 - 14 and 19 - 22 are allowed over prior art.

7. Claims 5 – 7 and 16 – 18 are objected as being dependent on a rejected base claim, but would allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and amended to overcome the rejection(s) under 35 U.S.C. 102 set forth in this Office action.

Regarding claims 5 and 16, the prior art of record fails to teach, disclose or fairly suggest as recited in claim 5, the prior art fails to disclose the image recording apparatus, wherein:

control part sets the bit rate further depending on a time T (seconds) of recording reserved;

a maximum available recording bit rate Rmax (bps); and a minimum available recording bit rate Rmin (bps); and

said control part determines the bit rate R (bps) by which the recording is performed to satisfy the following formula:T.times.R/8.ltoreq.A wherein,

R=Rmax when R.gt.Rmax; and R=Rmin when R.lt.Rmin.

Regarding claims 6 and 17, the prior art of record fails to teach, disclose or fairly suggest as recited in claim 6, the prior art fails to disclose the image recording apparatus, wherein:

said control part sets a lower the bit rate by which the recording is

Application/Control Number: 10/080,564

Art Unit: 2621

performed when the remaining storage capacity A is less than a predetermined value.

Regarding claims 7 and 18, the prior art of record fails to teach, disclose or fairly suggest as recited in claim 7, the prior art fails to disclose the image recording apparatus, wherein:

the control part sets the bit rate further depending on a time T (seconds) of recording reserved; and

a minimum available recording bit rate Rmin (bps); and said control part determines the bit rate R (bps) by which the recording is performed to satisfy the following formula:T.times.R/8.ltoreq.Awherein R=Rmin when R.lt.Rmin.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Y. Hasan whose telephone number is 571-270-1082. The examiner can normally be reached on 9/8/5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Application/Control Number: 10/080,564 Page 8

Art Unit: 2621

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. Y. H./ 10/10/2008

/Thai Tran/

Supervisory Patent Examiner, Art Unit 2621